DERWENT-ACC-NO: 1992-383388

DERWENT-WEEK: 199602

TITLE: Controller with learning mode for vehicular automatic

transmission - has separate memory for gear-changing

characteristics subject to adaptation by driver for execution when required

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PATENT-ASSIGNEE: SIEMENS AG[SIEI]

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ABSTRACTED-PUB-NO: EP 513424A

BASIC-ABSTRACT:

In manual mode (M), gear-changes are effected by a hand lever (10). Other
modes (Economy, Sport or Learning) are selected (8) to influence the gear-shift
computer (12) in response to engine load (14), road speed (V), accelerator
pedal position (FP) and kickdown (KD).

In the learning mode (L), changes into higher ratio are selected manually by
the driver and memorised for implementation on demand. Fixed and variable
characteristics are held in separate memories (34,35) with upper and lower
limits for changing-up.

ADVANTAGE - Changes of transmission ratio can be adapted exactly to driving
practices and wishes of driver.

ABSTRACTED-PUB-NO: EP 513424B

EQUIVALENT-ABSTRACTS:

Motor vehicle transmission (3) with a control device by means of which the
shift points of the transmission in a mode of operation for automatic gear
change (ES) are determined with reference to characteristic shift curves stored
in characteristic shift diagrams (34), and which is provided with an evaluation
circuit (12) by means of which the driving behaviour of the

driver is recorded
and is taken into account when the shift points of the
transmission are
determined; the transmission (3) also having a mode of
operation for manual
gear change (M) in which the control of the selection of the
gear of the
transmission (3) is made manually by the driver by means of a
manual gear
selector (10), characterised in that the transmission has a
learning (L) mode
of operation which can be triggered by the driver and in which
the shift points
(HSn) which are manually selected by the driver are detected
and are used as
points of reference, to be stored permanently, for adapted
characteristic shift
curves which can be called up as desired in a mode of
operation for adapted
gear change (P) as a separate gear-shift program.

US 5396420A

The control determines shifting points of a transmission from
performance
graphs. An evaluation circuit records a driving style of a driver
to be taken
into account in determining the shifting points of the
transmission. The
driver is allowed to initiate an operating mode during which the
driver
manually selects the shifting points. Shifting points manually
selected by the

driver are permanently stored in memory during the operating mode for calling
up the shifting points as desired.

ADVANTAGE - Provisions are made to ignore impermissible shifting points.

CHOSEN-DRAWING: Dwg.1/6 Dwg.1/6 Dwg.6/6

TITLE-TERMS: CONTROL LEARNING MODE VEHICLE AUTOMATIC TRANSMISSION SEPARATE
    MEMORY GEAR CHANGE CHARACTERISTIC SUBJECT ADAPT DRIVE EXECUTE
    REQUIRE

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